

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P828763

Luminaire Tested: **OHB-12HE-N-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-12HE-N-UNV-L830-CD
Description: 12000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

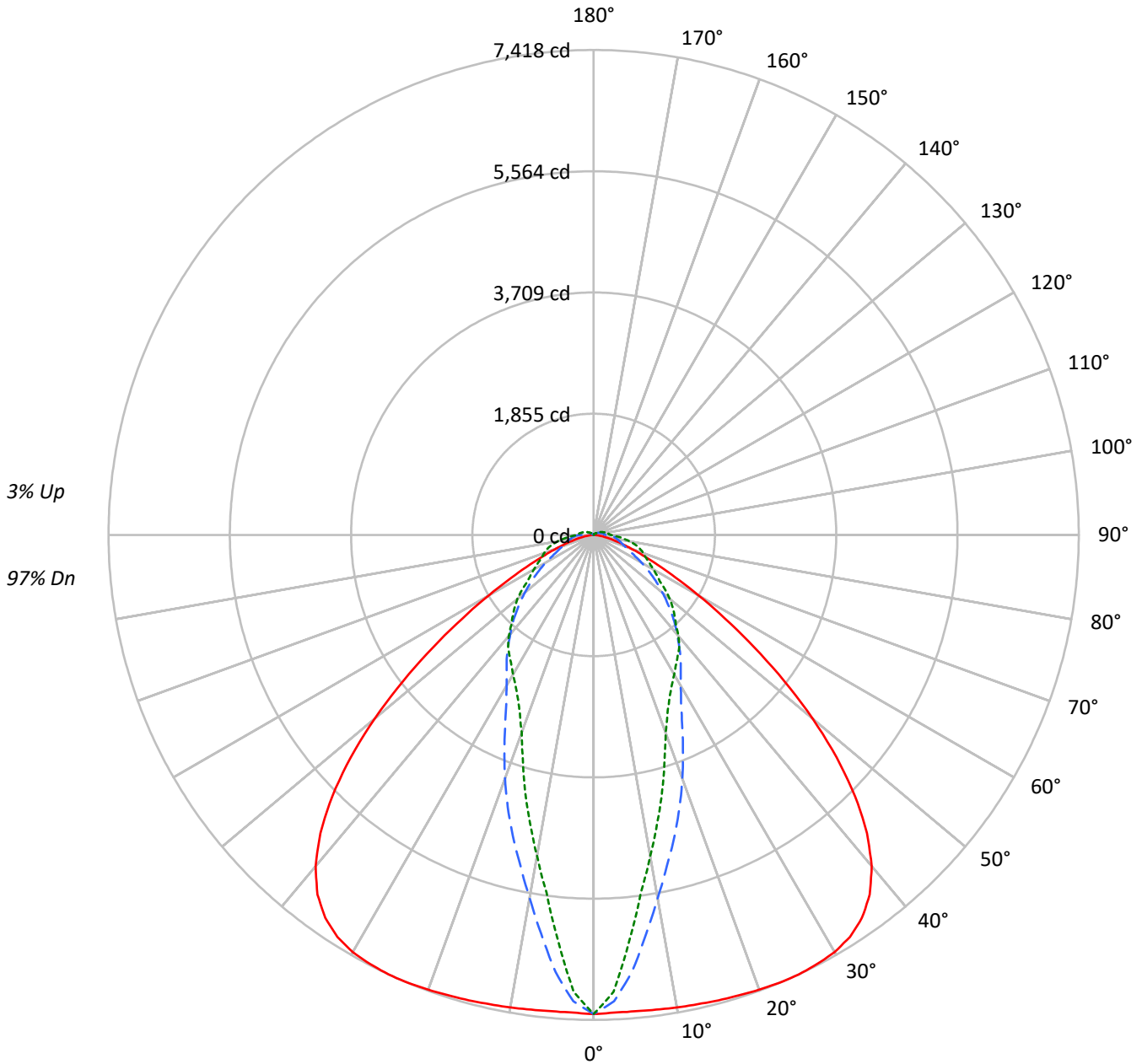
Lumens per Lamp: N/A
Luminaire Lumens: 10816.1 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 70
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P828763

CATALOG NUMBER: OHB-12HE-N-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P828763

CATALOG NUMBER: OHB-12HE-N-UNV-L830-CD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24481	24481	24481
5°	24342	22237	20728
10°	24526	18682	16621
15°	24911	15937	13642
20°	25512	13439	11034
25°	26286	11093	9668
30°	27076	9529	8981
35°	27508	8656	8557
40°	26894	7792	8118
45°	24593	7014	7516
50°	20603	6169	7054
55°	15523	5375	6277
60°	10764	4580	6009
65°	7142	3912	5883
70°	4786	3632	6172
75°	3228	3688	6595
80°	2118	3986	6789
85°	1118	4770	7123



TEST NUMBER: P828763

CATALOG NUMBER: OHB-12HE-N-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.9	5.7
10°-20°	1451.2	13.4
20°-30°	1819.1	16.8
30°-40°	1930.3	17.8
40°-50°	1745.3	16.1
50°-60°	1265.4	11.7
60°-70°	794.1	7.3
70°-80°	525.5	4.9
80°-90°	302.8	2.8
90°-100°	146.7	1.4
100°-110°	101.2	0.9
110°-120°	62.5	0.6
120°-130°	30.3	0.3
130°-140°	13.9	0.1
140°-150°	7.6	0.1
150°-160°	3.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3887.2	35.9
0°-40°	5817.5	53.8
0°-60°	8828.1	81.6
0°-90°	10450.6	96.6
90°-120°	310.4	2.9
90°-150°	362.2	3.3
90°-180°	365.0	3.4
0°-180°	10816.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7328	7328	7328	7328	7328	
5°	7314	7126	6708	6397	6236	699
15°	7370	6007	4771	4243	4050	2090
25°	7418	4644	3194	2835	2745	3427
35°	7153	3088	2318	2246	2245	4446
45°	5654	1956	1680	1721	1750	4308
55°	2994	1212	1096	1189	1232	2705
65°	1071	703	635	813	904	1114
75°	331	379	426	662	702	369
85°	58	157	312	434	398	69
90°	0	66	181	255	257	4
95°	3	46	159	216	226	2
105°	6	31	116	153	158	6
115°	8	22	78	98	100	8
125°	8	11	40	50	50	7
135°	7	8	17	27	27	5
145°	8	9	10	16	15	5
155°	8	10	11	12	10	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P828763

CATALOG NUMBER: OHB-12HE-N-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7328.4	7328.4	7328.4	7328.4	7328.4
2.5°	7313.1	7271.2	7140.8	7061.3	6994.3
5°	7313.8	7126.1	6707.7	6396.6	6235.5
7.5°	7324.2	6907.1	6153.2	5699.1	5521.9
10°	7340.3	6635.8	5635.6	5151.6	4986.3
12.5°	7352.1	6330.3	5180.2	4682.9	4501.5
15°	7369.6	6006.7	4770.8	4242.8	4050.3
17.5°	7385.6	5701.9	4366.2	3814.5	3600.4
20°	7401.7	5373.4	3961.7	3393.2	3216.8
22.5°	7417.0	5026.7	3566.9	3066.1	2945.5
25°	7418.4	4644.5	3194.5	2835.3	2745.3
27.5°	7400.3	4248.3	2892.4	2642.1	2586.3
30°	7368.9	3864.0	2658.1	2502.6	2462.8
32.5°	7290.8	3472.1	2476.7	2367.9	2344.9
35°	7152.7	3087.7	2318.4	2245.9	2245.2
37.5°	6935.0	2746.7	2146.8	2134.3	2149.6
40°	6613.5	2448.2	1984.3	2017.8	2017.8
42.5°	6184.6	2188.7	1837.2	1871.3	1862.3
45°	5654.5	1955.7	1680.2	1720.7	1750.0
47.5°	5040.0	1750.7	1519.8	1597.9	1638.4
50°	4371.8	1555.4	1373.3	1473.1	1519.1
52.5°	3671.5	1374.7	1230.4	1344.7	1381.7
55°	2993.6	1212.2	1096.4	1189.2	1231.7
57.5°	2379.8	1057.4	965.3	1053.2	1141.1
60°	1851.8	924.2	841.9	967.4	1055.3
62.5°	1414.5	805.6	726.1	887.2	975.1
65°	1070.6	703.1	634.7	813.3	903.9
67.5°	807.0	614.5	563.6	759.6	848.1
70°	606.1	528.7	506.4	726.1	805.6
72.5°	447.8	449.9	461.0	696.8	757.5
75°	330.6	378.7	426.2	661.9	701.7
77.5°	236.4	313.9	394.8	620.1	634.0
80°	163.9	256.0	362.0	565.0	553.1
82.5°	102.5	205.1	332.7	504.3	471.5
85°	57.9	156.9	311.8	433.8	398.3
87.5°	25.8	117.2	272.7	338.3	316.0
90°	0.0	65.6	180.6	254.6	256.7
92.5°	1.4	54.4	166.7	233.0	239.9
95°	2.8	46.0	159.0	216.2	226.0
97.5°	3.5	40.5	149.3	200.9	209.2
100°	4.2	36.3	137.4	184.8	191.8
102.5°	4.9	33.5	126.2	168.1	173.7
105°	5.6	30.7	115.8	153.4	157.6



TEST NUMBER: P828763

CATALOG NUMBER: OHB-12HE-N-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.0	23.7	87.2	110.2	113.7
115°	7.7	21.6	78.1	97.6	99.7
117.5°	8.4	18.8	68.4	85.8	86.5
120°	8.4	16.7	58.6	73.2	73.2
122.5°	8.4	13.9	48.8	60.7	60.0
125°	8.4	11.2	39.8	50.2	49.5
127.5°	7.7	9.1	32.1	41.8	41.2
130°	7.7	9.1	25.8	35.6	35.6
132.5°	7.0	8.4	20.9	30.7	30.7
135°	7.0	8.4	17.4	27.2	27.2
137.5°	7.0	9.1	14.6	23.7	23.7
140°	7.0	8.4	12.6	20.9	20.9
142.5°	7.7	8.4	11.2	18.1	18.1
145°	8.4	9.1	10.5	16.0	15.3
147.5°	8.4	9.8	10.5	13.9	13.3
150°	8.4	10.5	10.5	12.6	11.9
152.5°	8.4	10.5	10.5	11.9	11.2
155°	8.4	10.5	11.2	11.9	10.5
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	5.6	28.6	106.0	137.4	142.3
110°	6.3	25.8	96.9	122.8	127.6



(END OF REPORT)